

VOLUME 4

1966

Israel Journal of MATHEMATICS

Formerly: Bulletin of the Research Council of Israel
Section F—Mathematics and Physics

published by

The Weizmann Science Press of Israel

National Council for Research and Development

THE WEIZMANN SCIENCE PRESS OF ISRAEL

מוסד ויצמן לפרסומים במדעי הטבע ובטכנולוגיה בישראל

publishers of the following quarterlies:

ISRAEL JOURNAL OF BOTANY; ISRAEL JOURNAL OF CHEMISTRY; ISRAEL JOURNAL OF EARTH-SCIENCES; ISRAEL JOURNAL OF EXPERIMENTAL MEDICINE; ISRAEL JOURNAL OF MATHEMATICS; ISRAEL JOURNAL OF MEDICAL SCIENCES; ISRAEL JOURNAL OF TECHNOLOGY; ISRAEL JOURNAL OF ZOOLOGY.

General Editorial Board:

S. ADLER, MIRIAM BALABAN, E. D. BERGMANN, A. DVORETZKY, M. EVENARI, A. KATZIR (KATCHALSKY), L. PICARD, G. RACAH, M. REINER, S. SAMBURSKY

ISRAEL JOURNAL OF MATHEMATICS

Editors:

S. R. FOGUEL, *The Hebrew University of Jerusalem* (Executive Editor)
A. DVORETZKY, *The Hebrew University of Jerusalem*
J. GILLIS, *The Weizmann Institute of Science, Rehovoth*
B. GRÜNBAUM, *The Hebrew University of Jerusalem*
E. NETANYAHU, *Technion-Israel Institute of Technology, Haifa*

The ISRAEL JOURNAL OF MATHEMATICS publishes short and medium length research papers in mathematics. Manuscripts should be typewritten, double spaced, and conform to accepted standards for mathematical papers. A short abstract should be included. Authors should keep a complete copy. Authors making extensive revisions in proofs will be required to bear the costs thereof. Authors receive 50 reprints without covers free of charge; additional reprints and covers may be obtained at cost.

Manuscripts should be sent to

Editor
Israel Journal of Mathematics
Department of Mathematics
The Hebrew University of Jerusalem
Jerusalem, Israel

The Israel Journal of Mathematics is the continuation of the Bulletin of the Research Council of Israel, Section F—Mathematics and Physics, whose publication ended with Vol. 10 (1962).

Subscriptions are to be addressed to the Weizmann Science Press, P.O.B. 801, Jerusalem, Israel. In Europe, orders should be sent to Wm. Dawson & Sons Ltd., Cannon House, Macklin Street, London., W.C. 2. Subscription fees per volume, \$10.00 or £3.11.5. Individual members of mathematical societies may subscribe through the Weizmann Science Press at a 50% discount, i.e. \$5.00 or £1.15.8.

Printed in Israel
JERUSALEM ACADEMIC PRESS LTD.
September 1966

ISRAEL JOURNAL OF MATHEMATICS

TABLE OF CONTENTS, VOLUME 4, 1966

	Page
ARTZY, R. Non-euclidean incidence planes	43
ASPLUND, E. Farthest points in reflexive locally uniformly rotund Banach spaces.....	213
BAGEMIHL F. On the sharpness of Meier's analogue of Fatou's theorem..	230
BESSAGA C. AND PELCZYNSKI A. On extreme points in separable conjugate spaces	262
BIEGERT W. Tauber-konstanten für verschiedene Tauber-bedingungen bei den Kreisverfahren der Limitierungstheorie	97
BONNICE W. E. AND REAY J. R. Interior points of convex hulls.....	243
CIMA J. A. AND RUNG D. C. Normal functions and a class of associated boundary functions.....	119
DEVALCOURT B. A. Measures of axial symmetry for ovals.....	65
DONOGHUE W. F. Jr. The theorems of Loewner and Pick.....	153
EDELSTEIN M. Farthest points of sets in uniformly convex Banach spaces	171
EPSTEIN B. On a difference equation arising in a learning-theory model	145
ERDÖS P. On cliques in graphs	233
FOGUEL S. R. The ergodic theorem for Markov processes.....	11
LÜKÖ G. On the mean length of the chord of a closed curve.....	23
GORDON Y. Properties of generalised juxtapolynomials.....	177
HOLGATE P. Recurrence of sums of multiple Markov sequences.....	208
KANNAI Y. Values of games with a continuum of players.....	53
KEISLER H. J. Some model theoretic results for ω -logic.....	249
KINNEY J. R. Convex hull of brownian motion in d -dimensions	139
LAZAR A. J. AND LINDENSTRAUSS J. On Banach spaces whose duals are L_1 spaces	205
LEVIATHAN D. A generalized moment for self-adjoint operators	113
LINDENSTRAUSS J. On extreme points in I_1	59
LINDENSTRAUSS J. AND LAZAR A. J. On Banach spaces whose duals are L_1 spaces.....	205
LINDENSTRAUSS J. Notes on Klee's paper "Polyhedral sections of convex bodies"	235
MASCHLER M. The inequalities that determine the bargaining set $\mathcal{M}_1^{(i)}$..	127
MCGEHEE O. C. Set of uniqueness and sets of multiplicity.....	83
MICHAEL E. AND PELCZYNSKI A. Separable Banach spaces which admit l_n^∞ approximations	189

PELCZYNSKI A. AND MICHAEL E. Separable Banach spaces which admit l_n^∞ approximations	189
PELCZYNSKI A. AND BESSAGA C. On extreme points in separable conjugate spaces.....	262
REAY J. R. AND BONNICE W. E. Interior points of convex hulls.....	243
ROLEWICZ S. Plane sections of centrally symmetric convex bodies.....	135
RUNG D. C. AND CIMA, J. A. Normal functions and a class of associated boundary functions.....	119
SCHAFER, J. J. Sets with holes on the real line: A construction and an application	225
SHEPHERD G. C. A pre-Hilbert space consisting of classes of convex sets	1
THOMPSON R. C. Matrices with zero trace	33
TZAFRIRI, L. On perturbation theory for spectral operators.....	62
TZAFRIRI, L. On the multiplicity theory for Boolean algebras of projections	217
ZIPPIN, M. On perfectly homogeneous bases in Banach spaces	268
ZIPPIN, M. On a certain basis in c_0	199

ACKNOWLEDGEMENT

The Editors of the Israel Journal of Mathematics wish to express their appreciation for the services rendered to the Journal by all those who have cooperated, especially:

D. Amir, S. A. Amitsur, E. O. Asplund, R. J. Aumann, W. G. Bade, G. D. Chakerian, Z. Ditzian, M. Edelstein, A. Erdelyi, A. Figá-Talamanca, H. Guggenheimer, A. Jabotinsky, A. Jakimovski, S. Kaniel, J. Kampe de Fériet, S. Karlin, Y. Katznelson, L. M. Kelly, V. L. Klee, A. J. Lazar, J. Lindenstrauss, A. Meir, J. W. Moon, M. Machover, M. Rosenfeld, J. Segal, L. S. Shapley, R. L. Vaught, L. Tzafriri.

ERRATA

Volume 4, No. 2, page 126 last line the institution affiliation of Professor D. C. Rung should read:

Pennsylvania State University, University Park, Pa.